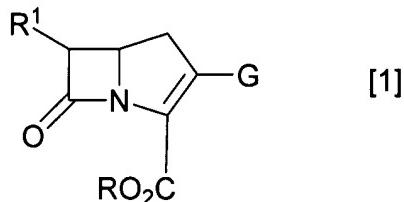


### Amendments to the Claims

1. (Original) A carbapenem compound represented by the following formula [1],

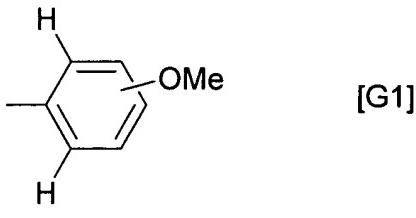


[1]

wherein R<sup>1</sup> is C<sub>1</sub>-C<sub>3</sub> alkyl group or C<sub>1</sub>-C<sub>3</sub> alkyl group substituted by hydroxy group,

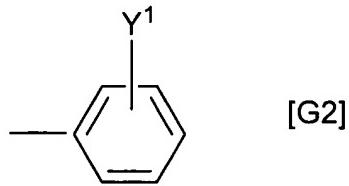
R is hydrogen atom or a group which reproduces carboxyl group by hydrolysis in vivo, and

G is a group represented by the formula G1:



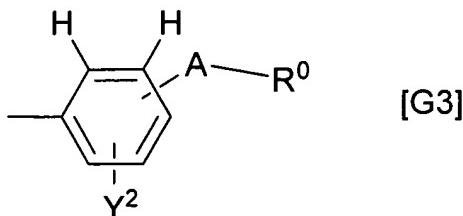
[G1]

, the formula G2:

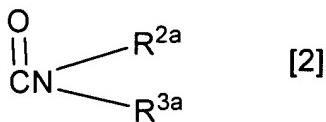


[G2]

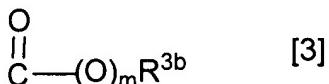
wherein Y<sup>1</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>2</sub>-C<sub>4</sub> alkoxy, -(CH<sub>2</sub>)<sub>ma</sub>-O-CH<sub>3</sub> (in which ma is an integer of 1~3), -O-(CH<sub>2</sub>)<sub>ma</sub>-O-(CH<sub>2</sub>)<sub>mb</sub>-CH<sub>3</sub> (in which ma is the same as defined above, mb is an integer of 0~3), trifluoromethoxy, halogen atom, cyano or -SO<sub>2</sub>NR<sup>2</sup>R<sup>3</sup> (in which R<sup>2</sup> and R<sup>3</sup> are independently hydrogen atom, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, or optionally substituted heteroarylalkyl, or R<sup>2</sup> and R<sup>3</sup> may be taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted.), or the formula G3:



wherein A is  $-(CH_2)_r$ -(in which r is an integer of 1~3),  $-(CH_2)_s-O-(CH_2)_t$ -( in which s and t are independently is an integer of 0~3),  $-O-(CH_2)_r-O-(CH_2)_s$ -(in which r and s are the same as defined above),  $-(CH_2)_s-NR^a-(CH_2)_t$ -(in which, s and t are the same as defined above, R<sup>a</sup> is hydrogen atom, protective group of amino group or optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl), R<sup>0</sup> is hydrogen atom, the formula [2]:



wherein R<sup>2a</sup> and R<sup>3a</sup> are independently (i) hydrogen atom, (ii) optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl, (iii) optionally substituted C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) optionally substituted aryl, (v) optionally substituted heteroaryl, (vi) optionally substituted aralkyl, (vii) optionally substituted heteroarylalkyl, or (viii) an optionally substituted 3 to 7 membered hetero ring, or R<sup>2a</sup> and R<sup>3a</sup> are taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted or the formula [3]:

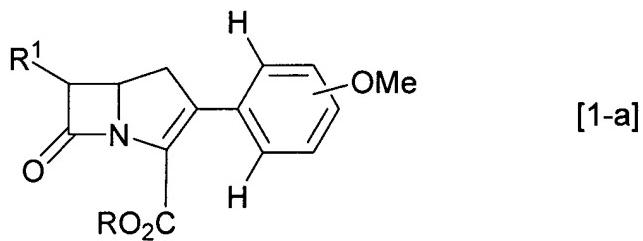


wherein m is an integer of 0 or 1, R<sup>3b</sup> is hydrogen atom, optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl, optionally substituted C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, optionally substituted heteroarylalkyl, or an optionally substituted 3 to 7 membered hetero ring, and when m is 1, R<sup>3b</sup> may further mean a group which reproduces carbonyl group by hydrolysis in vivo, provided that when t is 0 and m is 1, R<sup>3b</sup> is other group than hydrogen atom, and Y<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, halogen atom, cyano or -NR<sup>4</sup>R<sup>5</sup> (in which R<sup>4</sup> and R<sup>5</sup> are independently

(i) hydrogen atom, (ii) a protective group of amino group, (iii) optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl, (iv) optionally substituted C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (v) formyl, (vi) C<sub>2</sub>-C<sub>7</sub>

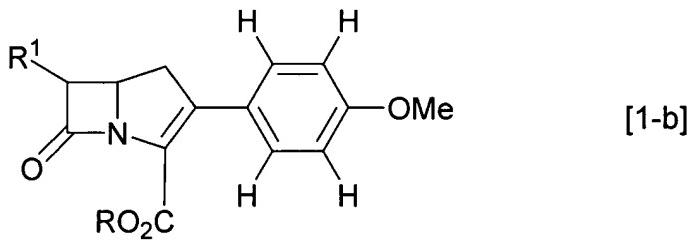
alkylcarbonyl, (vii) optionally substituted aryl, (viii) optionally substituted heteroaryl, (ix) optionally substituted aralkyl, (x) optionally substituted heteroarylalkyl, or (xi) an optionally substituted 3 to 7 membered hetero ring, or R<sup>4</sup> and R<sup>5</sup> are taken together with the nitrogen atom to form pyrrolidine, piperidine or azepam), or a pharmaceutically acceptable salt thereof.

2. (Currently amended) A carbapenem compound or a pharmaceutically acceptable salt thereof represented by the following formula [1-a] wherein G is G1 in the above formula [1]:



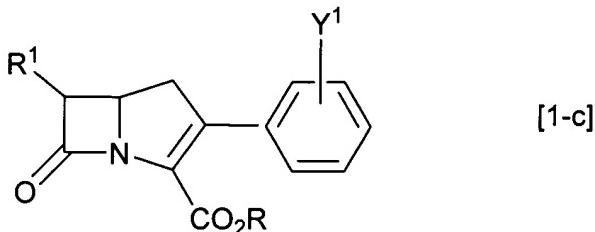
wherein R<sup>1</sup> and R are the same as defined in claim 1, or a pharmaceutically acceptable salt thereof.

3. (Original) A carbapenem compound represented by the following formula [1-b]:



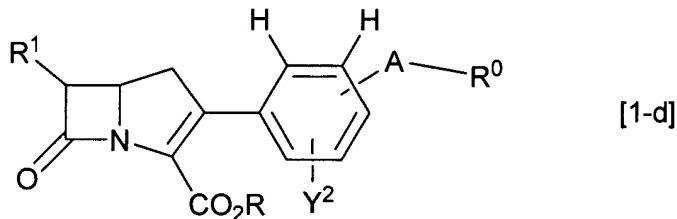
wherein R<sup>1</sup> and R are the same as defined in claim 1, or a pharmaceutically acceptable salt thereof.

4. (Original) A carbapenem compound represented by the following formula [1-c]:



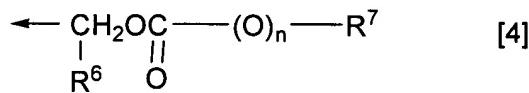
wherein R<sup>1</sup>, R and Y<sup>1</sup> are the same as defined in claim 1,  
or a pharmaceutically acceptable salt thereof.

5. (Original) A carbapenem compound or a pharmaceutically acceptable salt thereof represented by the following formula [1-d]:



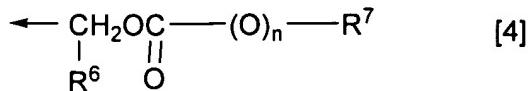
wherein R<sup>1</sup>, R, A, R<sup>0</sup> and Y<sup>2</sup> are the same as defined in claim 1,  
or a pharmaceutically acceptable salt thereof.

6. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein a group which reproduces carboxyl group by hydrolysis in vivo is a group of the formula [4]:



wherein R<sup>6</sup> is hydrogen atom or C<sub>1</sub>-C<sub>6</sub> alkyl, R<sup>7</sup> is optionally substituted C<sub>1</sub>-C<sub>10</sub> alkyl, or optionally substituted C<sub>3</sub>-C<sub>10</sub> cycloalkyl, and n is cycloalkyl, and n is an integer of 0 or 1.

7. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is a group of the formula [4] claimed in claim 4 [4]:



wherein R<sup>6</sup> is hydrogen atom or C<sub>1</sub>-C<sub>6</sub> alkyl, R<sup>7</sup> is optionally substituted C<sub>1</sub>-C<sub>10</sub> alkyl, or optionally substituted C<sub>3</sub>-C<sub>10</sub> cycloalkyl, and n is an integer of 0 or 1.

8. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 7~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R<sup>1</sup> is 1-hydroxyethyl.

9. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is pivaloyloxymethyl, acetyloxymethyl, acetyloxy-1-ethyl, isopropoxyoxycarbonyloxy-1-ethyl or cyclohexyloxycarbonyloxy-1-ethyl.

10. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is pivaloyloxymethyl.

11. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is phthalidyl or (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl.

12. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is hydrogen atom.

13. (Currently amended) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y<sup>1</sup> is C<sub>2</sub>-C<sub>4</sub> alkoxy, -(CH<sub>2</sub>)<sub>ma</sub>-O-CH<sub>3</sub> (in which ma is ~~the same as defined in claim 1~~ an integer of 1-3) or -O-(CH<sub>2</sub>)<sub>ma</sub>-O-(CH<sub>2</sub>)<sub>mb</sub>-CH<sub>3</sub> (in which ma is as defined above and mb are ~~the same as defined in claim 1~~ is an integer of 0-3).

14. (Original) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y<sup>1</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl, trifluoromethoxy, halogen atom or cyano.

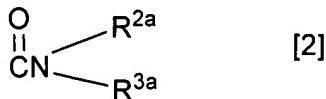
15. (Currently amended) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y<sup>1</sup> is -SO<sub>2</sub>NR<sup>2</sup>R<sup>3</sup> (in which R<sup>2</sup> and R<sup>3</sup> are ~~the same as defined in claim 1~~ independently hydrogen atom, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, or optionally substituted heteroarylalkyl, or R<sup>2</sup> and R<sup>3</sup> may be taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted).

16. (Original) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y<sup>1</sup> is ethoxy, -CH<sub>2</sub>-O-CH<sub>3</sub>, -(CH<sub>2</sub>)<sub>2</sub>-O-CH<sub>3</sub> or -O-(CH<sub>2</sub>)<sub>2</sub>-O-CH<sub>3</sub>.

17. (Currently amended) The carbapenem compound claimed in ~~any one of claims 4, 13 to 16~~ claim 4 or a pharmaceutically acceptable salt thereof wherein Y<sup>1</sup> on benzene ring is metha or para to the binding position of 7-oxo-1-azabicyclo[3.2.0]hept-2-ene.

18. (Currently amended) The carbapenem compound claimed in ~~any one of claims 4, 13 to 16~~ claim 4 or a pharmaceutically acceptable salt thereof wherein Y<sup>1</sup> on benzene ring is para to the binding position of 7-oxo-1-azabicyclo[3.2.0]hept-2-ene.

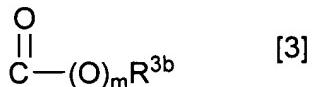
19. (Currently amended) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein R<sup>0</sup> is a formula [2]:



wherein R<sup>2a</sup> and R<sup>3a</sup> are ~~the same as defined in claim 1~~ independently (i) hydrogen atom, (ii) optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl, (iii) optionally substituted C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) optionally substituted aryl, (v) optionally substituted heteroaryl, (vi) optionally

substituted aralkyl, (vii) optionally substituted heteroarylalkyl, or (viii) an optionally substituted 3 to 7 membered hetero ring, or R<sup>2a</sup> and R<sup>3a</sup> are taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted.

20. (Currently amended) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof, wherein R<sup>0</sup> is a formula [3]:



wherein m and R<sup>3b</sup> are the same as defined in claim 1 is an integer of 0 or 1, and R<sup>3b</sup> is hydrogen atom, optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl, optionally substituted C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, optionally substituted heteroarylalkyl, or an optionally substituted 3 to 7 membered hetero ring, and when m is 1, R<sup>3b</sup> may further mean a group which reproduces carbonyl group by hydrolysis in vivo, provided that when t is 0 and m is 1, R<sup>3b</sup> is other group than hydrogen atom.

21. (Original) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl.

22. (Original) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub> alkoxy.

23. (Original) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y<sup>2</sup> is halogen atom or cyano.

24. (Currently amended) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y<sup>2</sup> is -NR<sup>4</sup>R<sup>5</sup> (in which R<sup>4</sup> and R<sup>5</sup> are the same as defined in claim 1 independently

(i) hydrogen atom, (ii) a protective group of amino group, (iii) optionally substituted C<sub>1</sub>-C<sub>6</sub> alkyl, (iv) optionally substituted C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (v) formyl, (vi) C<sub>2</sub>-C<sub>7</sub> alkylcarbonyl, (vii) optionally substituted aryl, (viii) optionally substituted heteroaryl,

(ix) optionally substituted aralkyl, (x) optionally substituted heteroarylalkyl, or (xi) an optionally substituted 3 to 7 membered hetero ring, or R<sup>4</sup> and R<sup>5</sup> are taken together with the nitrogen atom to form pyrrolidine, piperidine or azepam).

25. (Currently amended) A medicament containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.

26. (Currently amended) An antibacterial agent containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.

27. (Currently amended) An oral medicament containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.

28. (Currently amended) An oral antibacterial agent containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.